

If the electric sun roof has a defect, of which the cause cannot be found immediately, first check the function of the electrical parts, then the slip clutch of the gears and finally the sun roof lid and its power transmission parts.

#### Electrical part

To check the electrical parts of the sun roof system, operate the sun roof switch in both directions. It can be determined, whether the drive motor is turning to the left or right, by feeling the rubber clutch between the drive motor and gears. If turning or twisting can be felt, the electrical system is good and the defect should be sought in the mechanical section. The inspection must be carried out with the car's engine running, to be sure that full operating voltage is available.

**Note:** The drive motor has a temperature controlled switch for protection against overloads, which will interrupt the flow of current if loads are too high. Therefore it is recommended to let the drive motor cool off after operating the sun roof lid several times.

#### Rubber clutch does not move

Cause	Correction
Fuse burnt	The electric sun roof drive is protected by a 25 amp. fuse. Replace fuse.
Sun roof switch defective	Pry out sun roof switch with a flat wedge carefully. Disconnect electric plugs. Install new sun roof switch.
Set of wires for sun roof drive damaged	Check set of wires and install a new set if necessary.
Drive motor defective	Remove holder with motor and gears (77-180) and install a new drive motor.

#### Gear slip clutch

There is a defect in the slip clutch, if the slip clutch between the motor and gears turns quickly without the sun roof lid opening and closing. In this case the slip clutch must be adjusted.

This requires opening the counternut lock plate on the transmission (guide nut for emergency winder operation). Hold shaft with a screwdriver and tighten counternut.

The slip clutch should slip slowly when the sun roof lid is closed or opened completely; it should never stick. This can also be checked by feeling the rubber clutch between the drive motor and transmission. The drive motor should not require more than 17 amp. when the slip clutch is adjusted correctly.

Lock counternut again.

## **Sun roof lid and power transmission parts**

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If the sun roof lid will not open and close, although the electric parts and slip clutch are good, check the sun roof lid and power transmission parts.

### **Sun roof lid does not open and close**

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Cause	Correction
Sun roof lid hard to move or jammed	<ol style="list-style-type: none"><li>1. Remove sun roof lid (77-100).</li><li>2. Clean and lubricate sliding rails, sliding strips and slides with MB slide paste.</li><li>3. Adjust sun roof lid to remove play, i.e. slides must rest on sides and sun roof lid must be at exact center of opening. Since sun roof frame has tolerances along entire width, it is necessary to check side clearance at many points.</li><li>4. Adjust height of sun roof lid (77-110).</li></ol>
Teleflex cable hard to move	Remove teleflex cable (77-140) check for damage and replace if necessary.
Teleflex cable stuck in teleflex tube	Replace teleflex tube (77-150).
Sun roof drive transmission defective	Remove transmission (77-180).

**Note:** Rattling sun roof lids must always be lubricated with MB slide paste and adjusted to remove play (77-110). Replace slides which have been pressed together.